



Schematic depiction of chimerization of the heavy chain locus using the heavy chain homologous recombination conversion vector. The murine heavy chain locus is represented at top, followed by the heavy chain chimerization vector, and the chimeric heavy chain gene at the bottom. Murine gamma 1 exons are shown by open boxes designated  $\mu\gamma 1$  and the shaded boxes represent the human gamma 1 exons ( $hu\gamma 1$ ). Regions of homology are shown as heavy dashed lines. Other regions of note are: L, leader sequence;  $V_H$ , murine heavy chain variable region; J, murine heavy chain J region; e, murine heavy chain enhancer; neo, neomycin resistance gene; pUC19 ori, bacterial origin of replication; Amp<sup>R</sup>, ampicillin resistance gene.

## EXHIBIT 2